

CLAIMS

What is claimed is:

1. A client-server network for managing internet protocol voice data packets comprising:
- (a) a client terminal, for receiving internet protocol voice data packets from a caller;
 - (b) a graphical display, for conveying information to a client terminal user;
 - (c) a client terminal controller, for controlling the client terminal;
 - (d) a terminal proxy server, responsive to internet protocol control data packets, for sending synchronized signals to the client terminal and the client terminal controller to notify a client terminal user of the incoming voice data packets, the client terminal controller, in response to a synchronized signal, adapted to retrieve information about the incoming caller and convey the information to the client terminal user on the graphical display; and
 - (e) a graphical user interface, for receiving instructions from a client terminal user, the client terminal controller, in response to the instructions received from the user through the graphical user interface, adapted to perform at least one call management task on the voice data packets.

- 1000 2 1000 1000

- 1 9. The client-server network of claim 1 in which the graphical display
2 comprises a computer screen display.
- 1 10. The client-server network of claim 9 in which the client terminal
2 comprises a personal computer.
- 1 11. The client-server network of claim 1 in which the client terminal
2 comprises an internet protocol gateway for converting the voice data
3 packets to voice signals and a telephone for receiving the voice signals.

1 12. A method of monitoring an incoming voice mail message comprising the
2 steps of:

3 (a) sending an incoming telephone call addressed to a client
4 terminal to a voice mail storage device whereby an incoming
5 voice mail message is created; and

6 (b) establishing a conference call between the client terminal and the
7 voice mail storage device to monitor the incoming voice mail
8 message.

1 13. The method of monitoring an incoming voice mail message of claim 12
2 further comprising the step of muting the conference call between the ✓
3 client terminal and the voice mail storage device.

1 14. The method of monitoring an incoming voice mail message of claim 12
2 further comprising the step of establishing a speech path between the ✓
3 client terminal and the voice mail storage device.

1 15. The method of monitoring an incoming voice mail message of claim 12
2 further comprising the step of dropping the voice mail storage device ✓
3 from the conference.

- 1 16. A method of automatically updating an address book database 7
2 comprising the steps of;
3 (a) determining the address of an incoming telephone call;
4 (b) searching a lightweight directory access protocol server for
5 information corresponding to the address of the incoming call;
6 (c) retrieving from the lightweight directory access protocol server
7 the information corresponding to the address of the incoming
8 call; and
9 (d) downloading the retrieved information to an address book
10 database.
- 1 17. The method of claim 16 further including the step of searching the
2 address book database for information corresponding to the address of
3 the incoming call prior to searching the lightweight directory access
4 protocol server.
- 1 18. The method of claim 16 in which the lightweight directory access
2 protocol server is located within a data network.
- 7
- 100

1 19. A client-server network for managing internet protocol voice data
2 packets comprising:

- 3 (a) a client terminal, for receiving internet protocol voice data
4 packets from a caller;
- 5 (b) a graphical display, for conveying information to a client terminal
6 user;
- 7 (c) a client terminal controller, for controlling the client terminal;
- 8 (d) a terminal proxy server, responsive to internet protocol control
9 data packets, for sending a signal to the client terminal controller
10 to notify a client terminal user of the incoming voice data packets,
11 the client terminal controller, in response to the signal, adapted
12 to retrieve information about the incoming caller and convey the
13 information to the client terminal user on the graphical display;
14 and
- 15 (e) a graphical user interface, for receiving instructions from a client
16 terminal user, the client terminal controller, in response to the
17 instructions received from the user through the graphical user
18 interface, adapted to perform at least one call management task
19 on the voice data packets.